

# The Model for Improvement

**UDOH Diabetes Telehealth Series** 

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materials used from the IHI (Institute of Healthcare Improvement)

### Objectives

1) Understand the Model for Improvement\*

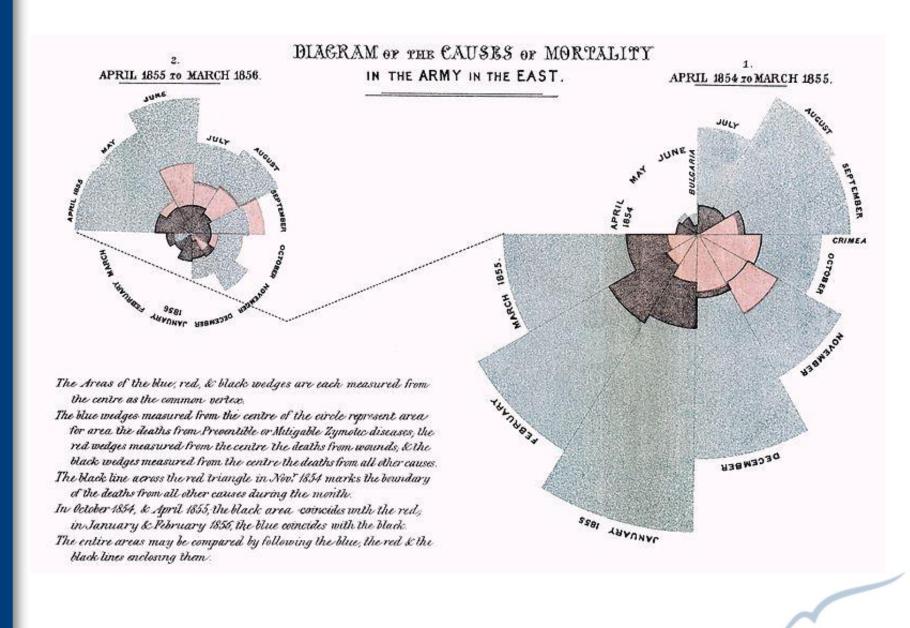
2) Develop an Aim Statement, Measurement Plan, and Improvement Plan

3) Understand rapid cycle improvement

\*Associates in Process Improvement



Horence Nightingale



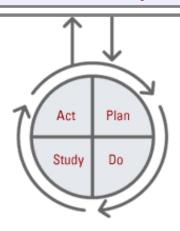


# The Model for Improvement PDSA Identify the Gap

What are we trying to accomplish?

How will we know that a change is an improvement?

What changes can we make that will result in improvement?



# Recognition of Quality Gap - Opportunity for Improvement

- Can be a vague impression (hunch)
- Report review
- Sentinel events
- We want a better outcome (hope)
- Taking Stock Exercise

#### Exercise #1

Take a minute and review from your recent experience one opportunity for improvement or quality gap

Please write it down

# The Model for Improvement PDSA cycles

What are we trying to accomplish?

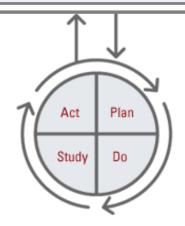
How will we know that a change is an improvement?

What changes can we make that will result in improvement?

← Set the AIM

Establish
MEASUREMENT

PLAN for Improvement



# Step #1 - <u>Setting the AIM</u> – What are we trying to accomplish?

- State the aim clearly (SMART acronym)
- Include numerical goal and time frame that require fundamental system change
- Set stretch goals
- Avoid aim drift
- Be prepared to refocus the aim

#### Step #2 - <u>Establishing measures</u> - How will we know that a change is an improvement?

- Plot data over time
- Seek usefulness, not perfection
- Use sampling
- Integrate measurement into the daily routine
- Use qualitative and quantitative data

#### Exercise #2

Take a minute and write an AIM statement based on the improvement opportunity identified in Exercise #1

Remember to include a numeric goal (measure) and time frame

### Step #3 – Overall Plan for Improvement

- Avoid "the same" responses
- Implement recommended practices guidelines
- Think processes and systems of work
  - Simplify processes
  - Reduce waste or unnecessary redundancies
  - Strengthen hand offs
- Creative thinking
- Appropriate use of new or existing technology

### Step #3 – Overall Plan for Improvement

- 1) Describe change (strategies)
- 2) Predict outcome
- 3) List steps needed
- 4) Plan for collection of data

# "Every system is perfectly designed to get the results it gets."

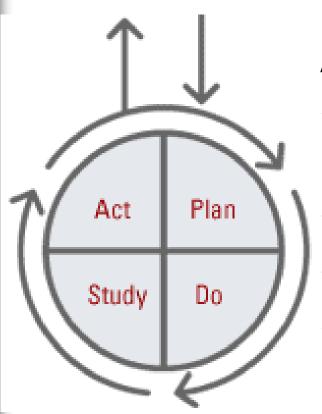
Paul Batalden, M.D.

#### Exercise #3

Take three or four minutes and outline your Global Plan

- 1) Describe change (strategies)
- 2) Predict outcome
- 3) List steps needed
- 4) Plan for collection of data

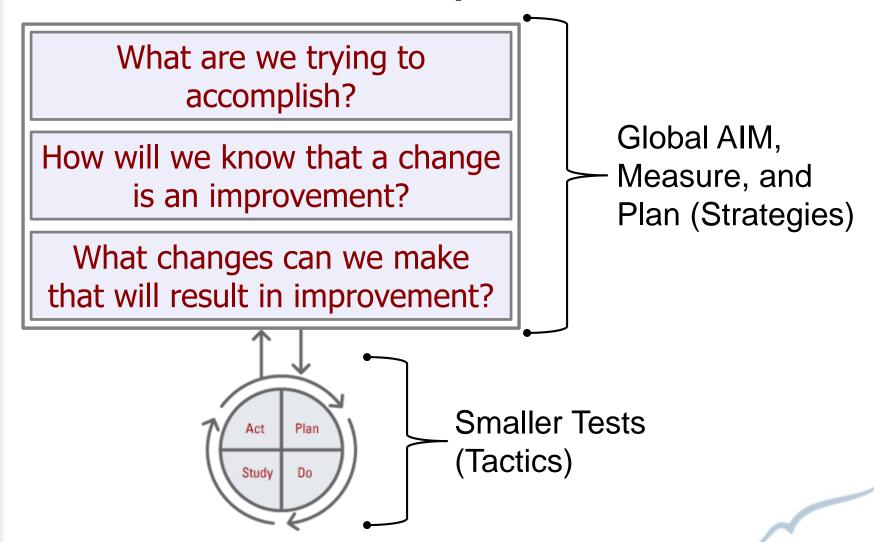
### PDSA (Plan-Do-Study-Act)



#### Also known as:

- PDCA (Check instead of Study)
- The Deming Cycle/Wheel
- The Shewart Cycle
- The Learning and Improvement Cycle

# The Model for Improvement PDSA cycles



### Classifying PDSA cycles

The Chronic Care

Model

(Mid-level Theory)

- Clinical Information
   Systems
- Delivery System
   Design Community
- Decision Support
- Self Management
- Organizational Support

#### Human Factors Science

(Micro-level Theory)

- Actors
- Behaviors
- Decisions
- Habits

#### Plan

#### Sequence:

- 1) Describe first (or next) change (tactic)
- 2) Predict outcome
- 3) List tasks needed
- 4) Plan for collection of data

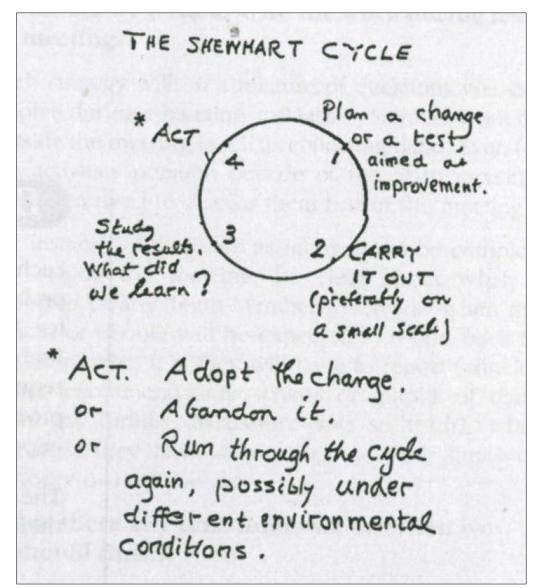
### DO - Carry it Out

- Implement (preferably on a small scale)
- Document problems and unexpected observations
- See plan through to completion
- Motivations to carry it out

# Study or Check – What did we learn?

- Review the Data / take survey
- Compare the data to your predictions
- What worked or went well? What did not?
- Summarize and Reflect on what was learned -- Draw Conclusions

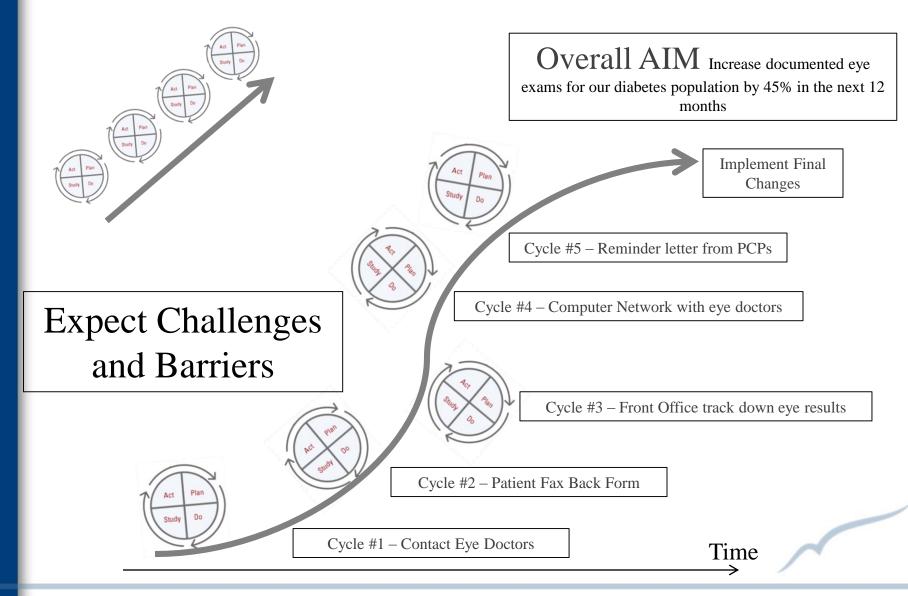
#### **ACT**





- Adopt it
- Abandon it
- More study needed
- Modify overall aim, measure, or plan
- Create new plan

### Rapid Cycle - Multiple Cycles

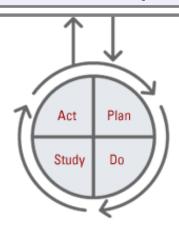


# The Model for Improvement PDSA cycles - Summary

What are we trying to accomplish?

How will we know that a change is an improvement?

What changes can we make that will result in improvement?



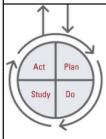
#### **PDSA Worksheet for Testing Change**

Instructions: Fill out for each test conducted. Replace Italicized statements

Cycle #:\_\_\_ Date: \_\_\_\_

Gap: Statement of improvement opportunity or gap in quality.

**Aim:** Statement of achievable goal including <u>numerical measure</u> and timeframe. **Overall Plan:** Statement of overall improvement action plan or strategies.



#### <u>Plan</u>

First (or next) change: Describe your first (or next) test of change. What is the first tactic?

Prediction: What will happen when the test is carried out?

Tasks Needed: List the tasks needed to set up this test of change (who, what, where, when)

Data Collection: Plan for collection of data (who, what, where, when)

#### Do

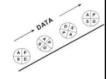
Describe what actually happened, including problems and unexpected observations, when you ran the test.

#### Study

Describe the measured results and how they compared to the predictions. Summarize and reflect on new knowledge learned.

#### <u>Act</u>

Describe what modifications to the plan will be made for the next cycle from what you learned.



### Questions ???

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